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into the Solomon river below the "Great Spirit spring." He easily took a number of specimens without the aid of a net. It is very probable that one or two closely-allied species also frequented this congenial saline haunt.

While collecting *Cicindela circumdata* on the salt marsh at Fredonia this season, I took a single specimen of *Cicindela cuprascens*, and the only one I have ever observed in southeast Kansas.

In the summer of 1883 Mr. A. W. Jones, of Salina, Kansas, gave me two specimens of *Rhyssenus*. Afterward I took a few specimens by sifting leaves and decaying vegetation. Mr. Ulke, to whom a specimen was submitted for determination, says: "This is a veritable salt insect; a similar one (*Rhyssenus scaber*) was discovered by me on the ocean shore in Maryland." This species has not been described as yet, and is probably peculiar to saline localities.

A thorough investigation of the coleopterous inhabitants of the saline localities in Kansas will undoubtedly reveal many species not known to the State, and intimately connected with the saline and maritime forms of the southern and eastern coasts of the Atlantic ocean and the Gulf of Mexico.

LISTS OF LEPIDOPTERA AND COLEOPTERA COLLECTED IN NEW  
MEXICO BY THE KANSAS UNIVERSITY SCIENTIFIC EXPEDITION  
OF 1883 AND 1884.

BY PROF. F. H. SNOW, OF THE UNIVERSITY OF KANSAS.

The following lists may be considered as supplementary to the lists published in vol. VIII of these Transactions, and include only those species which were not embraced in those lists. In July and August, 1883, our collections were made in the same locality as 1882—the Gallinas cañon, near the Las Vegas Hot Springs. My assistants were Messrs. L. L. Dyche, W. H. Brown, W. C. Stevens, and W. A. Snow. In August, 1884, the same individuals composed the party, which was divided into two sections. The first section made collections in the same locality as in the two preceding years, while the second section visited the southwestern corner of New Mexico, and encamped about twelve miles north of Silver City, on the Walnut creek, some three miles west of the divide which separates the Atlantic and the Pacific slopes. Here were found a considerable number of forms previously known to occur only in Arizona and old Mexico. Acknowledgments are due to Mr. W. J. Howard, of Silver City, for many favors; to Dr. Geo. H. Horn, for determinations of Coleoptera; and to Messrs. Henry Edwards, B. Neumoegen and J. B. Smith, for similar favors in the Lepidoptera. The letter appended to each species gives the locality of collection—G. and W. indicating, respectively, Gallinas cañon and Walnut creek cañon.

LIST OF LEPIDOPTERA.

|   |  |
|---|--|
| <i>Papilio philenor</i> L. W.                                   | <i>Pamphila lunus</i> Edw. W.  |
| <i>Limenitis ursula</i> Fab. var. <i>Arizonensis</i><br>Edw. W. | <i>Eudamus moschus</i> Edw. W.<br><i>Eudamus cellus</i> Bd.-Lec. W.    |
| <i>Thecla halesus</i> Cram. W.                                  | <i>Hemaris diffinis</i> Boisd. W.                                      |
| <i>Thecla laeta</i> Edw. W.                                     | <i>Everyx</i> sp. (faded). W.  |
| <i>Lycaena alcione</i> Edw. W.                                  | <i>Sphinx elsa</i> Strk. Silver City.                                  |
| <i>Lycaena marina</i> Edw. W.                                   | <i>Alypia Grotei</i> Bois. ( <i>Alypiodes flaviguis</i> Gr.) W. and G. |
| <i>Lycaena neglecta</i> Edw. W.                                 | <i>Copidryas Gloveri</i> G. and R. W.                                  |
| <i>Amblyscirtes ænus</i> Edw. W.                                | <i>Hypoprepia cadaverosa</i> Strk. W.                                  |
| <i>Pholisora</i> , n. sp. W.                                    | <i>Crocota ostenta</i> Hy. Edw. W.                                     |
| <i>Thanaos pacuvius</i> Lintn. W.                               |  |

|   |  |
|---|--|
| <i>Crocota Treatii</i> Gr. G.   | <i>Plusia Sackenii</i> Gr. G.                    |
| <i>Daritis</i> sp. A superb species obtained from<br>Mr. W. J. Howard, Silver City. | <i>Plusia Snowi</i> Hy. Edw. n. sp. G.           |
| <i>Nemeophila</i> var. <i>hosipiton</i> S. V. G.                                    | <i>Anarta promulsa</i> Morr. W.                  |
| <i>Halisdoida</i> pura Neum. Silver City.   | <i>Stibadium</i> sp. G.                          |
| <i>Euchaetes vivida</i> Gr. (?) W.  | <i>Stiria nanata</i> Neum. n. sp. G.             |
| <i>Cerura occidentalis</i> Lintn. W.  | <i>Polenta Tepperi</i> Morr. G.                  |
| <i>Platysamia</i> Gloveri Strk. From Mr. W. J.<br>Edema n. sp. Howard, Silver City. | <i>Antaplagia dimidiata</i> Gr. G.               |
| <i>Ichthyura</i> inornata Neum.   | <i>Meliceptria villosa</i> Gr. G.                |
| <i>Clisiocampa incurva</i> Hy. Edw. G.  | <i>Heliothis suavis</i> Hy. Edw. G.              |
| <i>Hepialus Behrenssii</i> var. <i>montanus</i> Stretch. G.                         | <i>Anthoxia tumida</i> Gr.                       |
| <i>Acronycta perdita</i> .  | <i>Cirrophanus triangulifer</i> Gr. G.           |
| <i>Agrotis rufula</i> Smith n. sp. G.   | <i>Chariclea pernana</i> Gr. W.                  |
| <i>Agrotis ferruginooides</i> Smith n. sp. G.                                       | <i>Melipotis pallescens</i> G. and R. W.         |
| <i>Agrotis flavidens</i> Smith n. sp. G.  | <i>Catocala neogama</i> Ab. and Sm. W.           |
| <i>Agrotis vocalis</i> Gr. W.   | <i>Catocala Arizonae</i> Gr. W.                  |
| <i>Agrotis redimicula</i> Gr. W.  | <i>Phegaria sevorsa</i> Gr. W.                   |
| <i>Agrotis verticulis</i> Gr. W.  | <i>Trama arrosa</i> Harvey.                      |
| <i>Mamestra prodeniformis</i> Smith n. sp. W.                                       | <i>Tetracis indiscretata</i> Hy. Edw. n. sp. G.  |
| <i>Mamestra</i> n. sp. (not yet described.) W.                                      | <i>Caberodes confusaria</i> Hübn. G.             |
| <i>Mamestra laudabilis</i> Guen. W.   | <i>Snowia montanaria</i> Neum. n.g. and n.sp. G. |
| <i>Mamestra Farnhami</i> Gr. W.   | <i>Azelina Hubneraria</i> Guen. var. W.          |
| <i>Hadena impulsa</i> Morr. W.  | <i>Antepione imitata</i> Hy. Edw. n. sp. G.      |
| <i>Pseudanarta crocea</i> Hy. Edw. W.   | <i>Synechlora rubrifrontaria</i> Pack. G.        |
| <i>Gortyna serrata</i> Gr. W. and G.  | <i>Chlorosea Nevadaria</i> Pack. G.              |
| <i>Amphipyra glabella</i> Morr. W.  | <i>Acialia enucleata</i> Guen. G.                |
| <i>Orthodes infirma</i> Guen. W.  | <i>Semiothisa praeatomaria</i> Harv. var. G.     |
| <i>Calymnia orina</i> Guen. G.  | <i>Semiothisa enotata</i> Guen. G.               |
| <i>Calymnia orina</i> var. G.   | <i>Thamnonoma tripunctaria</i> Pack. G.          |
| <i>Plusia Ni</i> Hübn. W.   | <i>Mesographa rimosalis</i> Guen.                |
| <i>Plusia gamma</i> L. W.   | <i>Desmia maculalis</i> Westu. W.                |
|   | <i>Desmia subdivisalis</i> Gr. G.                |
|   | <i>Crambus Leachellus</i> Zinck. G.              |

## LIST OF COLEOPTERA.

(The numbers prefixed are those of Crotch's and Austin's Check Lists.)

- 37a. *Cicindela imperfecta* Lec. G.
- 64. *Cicindela lemniscata* Lec. Deming.
- 72. *Omophron americanum* Dej. W.
- 116. *Nebrria obliqua* Lec. G.
- 118. *Nebrria hudsonica* Lec. W.
- 119. *Nebrria Sahlbergi* Fisch. G.
- 279. *Schizogenius depressus* Lec. W.
- 303. *Brachynus Tschernekii* Mann. W.
- . *Brachynus* n. sp. W.
- 334. *Lachnophorus pubescens* Dej. W.
- . *Lebia scapula* Horn. W.
- 356. *Lebia analis* Dej. var. W.
- 412. *Pinacodera punctigera* Lec. W.
- . *Callida platynoides* Horn. W.
- 434. *Calathus advena* Lec. W.
- 453. *Platynus bicolor* Lec. W.
- 523. *Platynus bembidionoides* Kirby. G.

524. *Platynus octocolus* Mannh. G.  
 562. *Evarthrus constrictus* Say. W.  
 7522. *Pterostichus longulus* Lec. G.  
 699. *Amara fallax* Lec. W.  
 705. *Amaru levipennis* Kirby. G.  
 761. *Chlaenius ruficauda* Chand. W.  
 788a. *Chlaenius obsoletus* Lec. W.  
 875. *Anisotarsus maculicornis* Chaud. W.  
 1015. *Trechys chalybeus* Mann. W.  
 —. *Bembidium* n. sp. W.  
 —. *Bembidium* (near) *tetraglyptum* Mann. W.  
 —. *Tachys* (near) *tripunctatus* Say. W.  
 1325. *Rhantus atricolor* Aubé. W.  
 1735. *Bryoporus testaceus* Lec. W.  
 1760. *Quedius hyperboreus* Er. G.  
 1766. *Quedius molochinus* Grav. G.  
 1778. *Staphylinus mysticus* Er. W.  
 1779. *Staphylinus comes* Lec. W.  
 —. *Philonthus quadrulus* Horn. W.  
 —. *Lithocaris* n. sp. W.  
 —. *Conosoma* sp. W.  
 —. *Deliphrum brevicolle*. G.  
 —. *Choleva basillaris*. W.  
 2248. *Liodes globosa* Lec. W.  
 2595. *Pediacus fuscus* Er. G.  
 2659. *Rhizophagus dimidiatus* Mann. W.  
 2749. *Epuraea truncatella* Mann.  
 2795. *Pityophagus rufipennis* Horn. W.  
 8054. *Pityophagus verticalis* Horn. G.  
 —. *Orthopeplus quadricollis* Horn. W.  
 2819. *Olibrus nitidus* Mels. W.  
 2834. *Hippodamia oregonensis* Cr. W.  
 —. *Byrrhus* n. sp. W.  
 2957. *Byrrhus concolor* Kirby. W.  
 3235. *Copris moechus* Lec. W.  
 —. *Phaneus quadridens* Say. W.  
 —. *Aphodius* n. sp. W.  
 3287. *Aphodius consentaneus* Lec. var. W.  
 3340. *Ochodaeus striatus* Lec. W.  
 3432. *Serica serotina* Lec. W.  
 3437. *Serica curvata* Lec. W.  
 3484. *Diplotaxis haydenii* Lec. G.  
 —. *Diplotaxis* n. sp. W.  
 —. *Diplotaxis* not named. W.  
 —. *Lachnostenra longipilis* Horn. W.  
 —. *Lachnostenra* n. sp. (near ephelida.) W.  
 —. *Phytalus debilis* Horn. W.  
 3588. *Strigoderma arboricola* Fabr. W.  
 3605. *Cylocephala manca* Lec. W.  
 3619. *Aphonus clunalis* Lec. W.  
 —. *Orizabus Snowi* Horn. n. sp.

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3621. *Xyloryctes satyrus* Fab. var. W.  
3637. *Gynnetis cretacea* Lec.  
—. *Euphoria* sp.  
3795. *Acmeodera culta* Web. G.  
8203. *Acmeodera amabilis* Horn. W.  
8209. *Acmeodera miliaris* Horn. W.  
3929. *Chalcolepidius Webbii* Lec. W.  
4031. *Elater nigrinus* Payk. G.  
4035. *Elater pullus* Cand. G.  
4172. *Melanotus paradoxus* Mels. W.  
4317. *Corymbites aeripennis* Kirby. W.  
4373. *Sandalus Californicus* Lec. W.  
4419. *Lycus cruentus* Lec. W.  
—. *Lycostomus loripes* Chevr. W.  
—. *Lycostomus Fernandezi*. W.  
4430. *Eros aurora* Hbst. W.  
8306. *Podabrus lateralis* Lec. G.  
4709. *Cymatoderia cylindricollis* Chev. W.  
4711. *Cymatoderia puncticollis* Bland. W.  
4722. *Clerus Spinola* Lec. W.  
4738. *Clerus moestus* Kluy. G.  
4758. *Hydnocera discoidea* Lec. W.  
—. *Ernobioides* n. sp. W.  
4837. *Trypopitys sericeus* Say. W.  
4866. *Ptilinus ruficornis* Say. W.  
4905. *Spondylis upiformis* Mann. W.  
4939. *Tetropium cinnamopterum* Kirby. G.  
4958. *Phymatodes dimidiatus* Kirby. G.  
4960. *Callidium antennatum* Newm. W.  
4998. *Elaphidium procerum* Lex. W.  
—. *Stenosphenus* sp. W.  
5062. *Dendrobias quadrimaculatus* Dup. Deming.  
5165. *Stenocorus lineatus* Oliv. G.  
5180. *Pachyta liturata* Kirby. G.  
5277. *Leptura nigrolineata* Bland. G.  
5348. *Leptostylus biustus* Lec. W.  
5534. *Orsodachna atra* Ahr. W.  
5538. *Zeugophora abnormis* Lec. G.  
5561b. *Babia tetraspilota* Lec. W.  
8452. *Diachus auratus* Fab. W.  
8482. *Cryptocephalus amatus* Hald. W.  
8517. *Pachybrachys subvittatus* Lec. G.  
5629. *Pachybrachys Xanti* Cr. (?) W.  
5660. *Pachybrachys abdominalis* Say. var. W.  
5731. *Chrysomela continua* Lec. G.  
—. *Calligrapha multiguttis* Stähl. W.  
5765. *Plagiодera Arizonae* Cr. W.  
5788. *Luperus varicornis* Lec. W.  
5837. *Trirhabda convergens* Lec. G.  
—. *Otosoma marginicollis* Horn. W.  
5956. *Odontota omogera* Cr. W.

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8590. *Odontota collaris* Say. W.  
 —. *Charistena* n. sp. W.  
 —. *Microrhopala vulnerata* Horn. W.  
 6226. *Bius estriatus* Lec. W.  
 —. *Allecula*, two species. W.  
 6329. *Corticicus parallelus* Mels. G.  
 6459. *Notoxus bifasciatus* Lec. W.  
 6550. *Carebara longula* Lec. G.  
 6566. *Eustrophus indistinctus* Lec. W.  
 8626. *Helops arizonensis* Horn. W.  
 6716. *Macrobasis ochrea* Lec. W.  
 6781. *Cantharis deserticola* Horn. W.  
 8705. *Nemognatha punctipennis* Lec. W.  
 8830. *Tanygnathus lacaena* Hbst. W.  
 —. *Acmegenius* sp. W.  
 8844. *Phacepholis candida* Horn. W.  
 8946. *Cleoponpis pulvereus* Lec. W.  
 8985. *Procas Lecontei* (picipes Steph.) W.  
 9084. *Anthonomus quadrigibbus* Say. W.  
 —. *Cryptorhynchus* sp. W.  
 —. *Baris* sp. W.  
 9422. *Rhodobænus pustulosus* Gyll. W.  
 9519. *Pityophthorus panticollis* Lec. W.  
 —. *Pityophthorus* n. sp. W.  
 9535. *Xyloterus bivittatus* Hb. G.  
 9546. *Xyleborus xylographus* Say. W.  
 9620. *Dendroctonus similis* Lec. W.  
 9623. *Dendroctonus simplex* Lec. G.  
 —. *Hylurgops* sp. W.

In connection with the preceding list it may be interesting to note that the season was a very dry one, there being hardly enough rain, except on one occasion, to thoroughly wet the canvas of our tent in the Walnut creek cañon during a stay of five weeks. The bed of the creek was dry for long distances. Collecting "at sugar" was rewarded by very indifferent success. Some fine beetles and moths were taken "at light," by making huge fires of pitch-pine logs. Among these were *Plusiotis gloriosa*, *Plusiotis Lecontei*, *Orizabus Snowi*, *Strategus ccessus*, *Aphonus clunalis*, and *Cyclocephala manca*. *Lachnostenus longipilis* was taken at dusk while flying about the foliage of the live-oaks. The only specimen taken of *Chalcolepidius Webbii* was a large female resting upon an old pine stump. The electric lights at Silver City were very attractive to insects. Here were taken *Sphinx Elsa*, *Halisdota pura*, *Smerinthus occidentalis*, a magnificent *Daritis*, *Dynastes Grantii*, and other fine species of both Lepidoptera and Coleoptera. *Dendrobius quadrimaculatus*, *Clerus Spinolæ*, and *Macrobasis ochrea* were found abundantly upon the blossoms of the tall species of yucca in the vicinity of Deming and Silver City.

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#### PRELIMINARY LIST OF KANSAS FISHES.

**MR. PRESIDENT:** The following preliminary list of the fishes of Kansas is submitted as a part of the report of your Commission on Ichthyology. My thanks are due and are hereby expressed to Professor (now President) David S. Jordan, of Indiana State University, the well-known authority on the fresh-water fish fauna of North America, for his